

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L13	1	("9301851").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/16 12:51
S1	775	(604/890.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 08:44
S2	99	S1 and (needle and (piston or actuator))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:11
S3	1394	(604/110).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 09:11
S4	571	S3 and (needle and (piston or actuator))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:12
S5	308	S3 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:12
S6	306	S5 not S2	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:43
S7	2	((("20030229308") or ("20030105430")).PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 09:46
S8	766	(604/272).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 10:24
S9	39	S8 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:25
S10	37	S9 not (S6 or S2)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:25

## EAST Search History

S11	420	604/136	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:29
S12	199	S11 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:30
S13	183	S12 not (S2 or S6 or S10)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:30
S14	25	("2605765"   "2752918"   "2856924"   "3572336"   "3702609"   "3712301"   "4227528").PN. OR ("4894054").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 10:50
S15	44	(604/137).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 10:57
S16	30	S15 not S13	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:58
S17	30	(US-20040162521-\$ or US-20030225373-\$ or US-20040225281-\$ or US-20030130619-\$ or US-20040059316-\$).did. or (US-5931814-\$ or US-5267963-\$ or US-5885257-\$ or US-5429612-\$ or US-6638248-\$ or US-5487733-\$ or US-4886499-\$ or US-5848990-\$ or US-5356383-\$ or US-4340048-\$ or US-5167632-\$ or US-6290683-\$ or US-6093172-\$ or US-6595956-\$ or US-6796967-\$ or US-5891105-\$ or US-4442836-\$ or US-5453092-\$ or US-4894054-\$ or US-6293925-\$ or US-6666100-\$ or US-3702609-\$ or US-4781688-\$ or US-5591188-\$ or US-4227528-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/17 11:07
S18	13	S17 and trigger	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 11:29

## EAST Search History

S19	27	("3515127"   "3656472"   "3702608"   "3797489"   "3941130"   "4150669"   "4188950"   "4261358"   "4333459"   "4512767"   "4723937"   "4787891"   "4850973"   "5037396"   "5137516"   "5167632").PN. OR ("5267963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 11:12
S20	854	(604/131).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 11:29
S21	146	S20 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 11:30
S22	123	S21 not (S2 or S6 or S10 or S13)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:01
S23	3	("9857683").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	OFF	2005/08/17 12:13
S24	238	(604/141).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	OFF	2005/08/17 12:03
S25	29	S24 and (needle and trigger)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:03
S26	2033	(trigger or latch) with (base or skin) and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:14
S27	5205	(trigger or latch) with (base or skin or surface) and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:15
S28	4098	(604/110,890.1,272,136,137,131,141).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 12:15
S29	215	S27 and S28	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:16

## EAST Search History

S30	127	S29 and (piston or actuator)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 15:53
S31	414	604/116	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:23
S32	118	604/116 and needle and (actuator or piston or retract\$4)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:24
S33	86	( "3923166"   "3949747"   "4401433"   "4573452"   "4653509"   "4849692"   "4945305"   "5053687"   "5078140"   "5081381"   "5086401"   "5142930"   "5161542"   "5184601"   "5186174"   "5234000"   "5240011"   "5243266"   "5251127"   "5269034"   "5273039"   "5279309"   "5280427"   "5299288"   "5305203"   "5307072"   "5343385"   "5354158"   "5383454"   "5389101"   "5397323"   "5402801"   "5408409"   "5415182"   "5417210"   "5425616"   "5445166"   "5453686"   "5464013"   "5494034"   "5564436"   "5564663"   "5568593"   "5572999"   "5584292"   "5600330"   "5628327"   "5630431"   "5640170"   "5643286"   "5647373"   "5676673"   "5695500"   "5744953"   "5748767"   "5749362"   "5767669"   "5776153"   "5782764"   "5795291"   "5800352"   "5800423"   "5803089"   "5803912"   "5806518"   "5807378"   "5817084"   "5829444"   "5833656"   "5851183"   "5865744"   "5873822"   "5887121"   "5943914"   "5950629"   "5951475"   "5967980"   "5976156"   "6000297"   "6021342"   "6024695"   "6138495"   "6309397"   "6406472"   "6413264"   "6491701").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 16:27
S34	827	604/117	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:51

## EAST Search History

S35	294	604/117 and (trigger or latch or piston or actuator)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:52
S36	272	S35 not S32	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:52
S37	217	S36 and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:52
S38	14	("2047010"   "3530785"   "4269192").PN. OR ("5520650").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 17:31
S39	232	(604/156,157).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 17:33
S40	136	S39 and (needle and (actuator or piston or retract\$4 or latch))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 17:34
S41	121	S40 not (S32 or S33 or S37)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 17:34
S42	17	("3073306"   "3605742"   "3702608"   "4085748").PN. OR ("4270537").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 17:57
S43	1255	(604/181,187).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 18:03
S44	0	("L13and(needleand(retract\$4oractuatororpistonortrigger)andspring)").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 18:04
S45	225	S43 and (needle and (retract\$4 or actuator or piston or trigger) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:04
S46	211	S45 not (S41 or S37 or S36)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:05

## EAST Search History

S47	2388	(604/198,197,192).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 18:30
S48	1269	S47 and (needle and (trigger or actuator or latch or retract\$4))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:31
S49	1198	S48 not (S46 or S41 or S37 or S32)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:32
S50	990	S49 and needle with retract\$4	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:32
S51	85	S50 and trigger	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:34
S52	1	("5520650").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/18 09:04
S53	1	("5267963").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/18 09:32

## EAST Search History

S54	61	(US-20010025168-\$ or US-20030130619-\$ or US-20030225373-\$ or US-20040059316-\$ or US-20040162521-\$ or US-20040225281-\$).did. or (US-3702609-\$ or US-4067334-\$ or US-4198975-\$ or US-4227528-\$ or US-4231368-\$ or US-4261358-\$ or US-4270537-\$ or US-4340048-\$ or US-4442836-\$ or US-4512767-\$ or US-4781688-\$ or US-4850973-\$ or US-4858607-\$ or US-4886499-\$ or US-4894054-\$ or US-4966589-\$ or US-5024665-\$ or US-5034003-\$ or US-5167632-\$ or US-5201716-\$ or US-5267963-\$ or US-5295971-\$ or US-5356383-\$ or US-5429612-\$ or US-5453092-\$ or US-5487733-\$). did. or (US-5520650-\$ or US-5591188-\$ or US-5637094-\$ or US-5672161-\$ or US-5836911-\$ or US-5848990-\$ or US-5858001-\$ or US-5885257-\$ or US-5891093-\$ or US-5891105-\$ or US-5931814-\$ or US-5935113-\$ or US-6001089-\$ or US-6056728-\$ or US-6083237-\$ or US-6093172-\$ or US-6149626-\$ or US-6149629-\$ or US-6254575-\$ or US-6264637-\$ or US-6290683-\$ or US-6293925-\$ or US-6447527-\$ or US-6595956-\$ or US-6638248-\$ or US-6666100-\$ or US-6676669-\$). did. or (US-6796967-\$ or US-6830562-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/18 09:35
S55	9	S54 and (needle near lock\$4)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/18 09:36
S56	1	("9301851").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/18 11:37
S57	23	WOZENCROFT-ROBERT-MICHAEL. in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/18 11:38
S58	101	dubrul.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:22

## EAST Search History

S59	20	S58 and (needle and inject)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:23
S60	50	S58 and (needle)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:23
S61	30	S60 not S59	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:23
S62	0	("2003/0225373").URPN.	USPAT	OR	ON	2006/05/12 16:33
S63	34	bobroff.in.	USPAT	OR	ON	2006/05/12 16:33
S64	1	bobroff.in. and needle	USPAT	OR	ON	2006/05/12 16:36
S65	14	("4685903"   "4755173"   "5122119"   "5147375"   "5176662"   "5257980"   "5390671"   "5568806"   "5584813"   "5586553"   "5591188"   "5779665"   "5851197").PN. OR ("6607509"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/12 16:37
S66	28	("3515127"   "3656472"   "3702608"   "3797489"   "3941130"   "4150669"   "4188950"   "4261358"   "4333459"   "4512767"   "4723937"   "4787891"   "4850973"   "5037396"   "5137516"   "5167632").PN. OR ("5267963"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/12 16:55
S67	1	("4886499").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:05
S68	3	((("4886499") or ("2605765")).PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:07
S69	6	((("4886499") or ("2605765") or ("4894054") or ("5312364") or ("6238375")).PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:19
S70	44	(604/137).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:43



## EAST Search History

S71	143	(604/136).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:43
S72	139	S71 not S70	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/15 11:13